

## **WebQuests:**

Each student will complete both of these webquests. You may choose the order, but each of you will finish this on your own. I will not accept identical copies from any two students. Make sure you do your own work.

### **What's a WebQuest?**

A webquest is an assignment wherein you must use the internet to find answers to a set of questions. Generally, we will use them to direct our activity on the wiki, but this set is to be done on the paper handout. Please answer the questions in the space provided. You must follow all directions.

### **WebQuest #1: Photosynthesis**

Photosynthesis is a very important process for life on Earth. You must explore the process and how we came to understand it.

#### **Task 1: What is Photosynthesis?**

Using the internet, find 2 references for what photosynthesis is. Using your own **words**, describe the process in the space below. Who was important in the development of the theory of photosynthesis in early science?

#### **Task 2: What is the Reaction for Photosynthesis?**

The reactions of photosynthesis are very complicated, but have been nicely combined into one overall reaction. Find it and copy it here. Next, identify each step in the process and describe, in words, what is happening, using your answer above as a reference.

### **Task 3: Why is Photosynthesis So Important?**

Why is photosynthesis described as crucial for life? Use the reaction to describe why this process is vital for life. (Hint: there are two real reasons for this! Find them!)

### **Task 4: What Would Happen on the Planet Without Photosynthesis?**

What do you think would happen on the Earth if photosynthesis suddenly stopped? Be specific and thorough. A one sentence answer probably won't do here. Think about it.

### **Task 5: Photosynthesis and Cell Respiration are Linked. How?**

Describe how photosynthesis and cell respiration are linked.

## **WebQuest #2: Cell Respiration**

Living things need energy to survive. They also need a way to process that energy. Cell respiration is the process used by organisms that can obtain oxygen from their environments. It is very important for multi-cellular life on Earth.

### **Task 1: What is Cell Respiration?**

Using the internet, find 2 references for what cell respiration is. Using your own **words**, describe the process in the space below. Who was important in the development of the theory of cell respiration in early science?

### **Task 2: What is the Reaction for Cell Respiration?**

The reactions of cell respiration are very complicated, but have been nicely combined into one overall reaction. Find it and copy it here. Next, identify each step in the process and describe, in words, what is happening, using your answer above as a reference.

### **Task 3: Why is Cell Respiration So Important For Multi-Cellular Organisms?**

Why is Cell respiration described as crucial for life? Use the reaction to describe why this process is vital for multi-cellular life. (Hint: there are two real reasons for this! Find them!)

### **Task 4: What Would Happen to Multi-Cellular Organisms if Cell Respiration Stopped?**

What do you think would happen on the Earth if cell respiration suddenly stopped working? Be specific and thorough. A one sentence answer probably won't do here. Think about it.

### **Task 5: Photosynthesis and Cell Respiration are Linked. How?**

Describe how photosynthesis and cell respiration are linked.